

Release notes for ENDF/B Development n-056\_Ba\_136  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017



- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5643, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5643, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 254 TO 300
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5643, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5643, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 254
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5643, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 302
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 469
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 494
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 519
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 534
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 17 (0): Directory (b)*



ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 544

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 550

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 564

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 575

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 590

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 603

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 616

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 55 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 55  
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 628

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 56 (0): Directory (b)*



- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 56 | RECORD NUMBER | 639 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 57 | RECORD NUMBER | 650 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 58 | RECORD NUMBER | 661 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 59 | RECORD NUMBER | 671 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 60 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 60 | RECORD NUMBER | 681 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT= 91 | RECORD NUMBER | 691 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT=102 | RECORD NUMBER | 700 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT=103 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 3, MT=103 | RECORD NUMBER | 721 |
| SECTION 3/103 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT=104 (0): Directory (b)*



- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 3, MT=104 |               |     |
|  | SECTION 3/104 NOT IN DIRECTORY            | RECORD NUMBER | 736 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT=105 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 3, MT=105 |               |     |
|  | SECTION 3/105 NOT IN DIRECTORY            | RECORD NUMBER | 748 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 3, MT=107 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 3, MT=107 |               |     |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER | 759 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 2 (0): Directory (b)*
- |  |  |               |     |
|--|--|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 2 |               |     |
|  | SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER | 776 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 16 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 16 |               |     |
|  | SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER | 953 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 17 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 17 |               |     |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER | 964 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 22 |               |     |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER | 975 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 28 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 28 |               |     |
|  | SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER | 986 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 51 (0): Directory (b)*



- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 51 | RECORD NUMBER | 997 |
| SECTION 4/ 51 NOT IN DIRECTORY            |               |     |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 52 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 52 | RECORD NUMBER | 1104 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 53 | RECORD NUMBER | 1129 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 54 | RECORD NUMBER | 1154 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 55 | RECORD NUMBER | 1179 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 56 | RECORD NUMBER | 1203 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 57 | RECORD NUMBER | 1227 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 58 | RECORD NUMBER | 1251 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 59 (0): Directory (b)*



- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 59 |                    |
| SECTION 4/ 59 NOT IN DIRECTORY            | RECORD NUMBER 1275 |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 60 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 60 |                    |
| SECTION 4/ 60 NOT IN DIRECTORY            | RECORD NUMBER 1299 |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 4, MT= 91 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 4, MT= 91 |                    |
| SECTION 4/ 91 NOT IN DIRECTORY            | RECORD NUMBER 1323 |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 5, MT= 16 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 5, MT= 16 |                    |
| SECTION 5/ 16 NOT IN DIRECTORY            | RECORD NUMBER 1348 |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 5, MT= 17 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 5, MT= 17 |                    |
| SECTION 5/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1411 |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 5, MT= 22 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 5, MT= 22 |                    |
| SECTION 5/ 22 NOT IN DIRECTORY            | RECORD NUMBER 1437 |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 5, MT= 28 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 5, MT= 28 |                    |
| SECTION 5/ 28 NOT IN DIRECTORY            | RECORD NUMBER 1653 |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5643, MF= 5, MT= 91 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5643, MF= 5, MT= 91 |                    |
| SECTION 5/ 91 NOT IN DIRECTORY            | RECORD NUMBER 1758 |

• **psyche** Warnings:

- Gamma width not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 136. L = 1 / AT RESONANCE ENERGY 2.96880E+04 EV. THE GAMMA WIDTH 9.40000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.67028E-01 (0): Gamma width*



- FILE 2  
SECTION 151  
ISOTOPE MASS = 136. L = 1  
AT RESONANCE ENERGY 2.96880E+04 EV. THE GAMMA WIDTH 9.40000E-01 DEVIATES TOO MUCH FROM THE AV
2. Gamma width not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 136. L = 1 / AT RESONANCE ENERGY 3.36340E+04 EV. THE GAMMA WIDTH 9.60000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.67028E-01 (0): Gamma width*
- FILE 2  
SECTION 151  
ISOTOPE MASS = 136. L = 1  
AT RESONANCE ENERGY 3.36340E+04 EV. THE GAMMA WIDTH 9.60000E-01 DEVIATES TOO MUCH FROM THE AV
3. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.50003E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*
- FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.50003E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [5 more lines]
4. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.50002E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*
- FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.50002E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [2 more lines]
5. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.50005E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*
- FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.50005E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [1 more lines]
6. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.50004E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*



FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.50004E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04  
... [1 more lines]

7. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.49990E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.49990E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

8. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.49997E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.49997E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

9. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05 / STRENGTH FUNCTION 8.49985E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2  
SECTION 151  
ENERGY = 3.50000E+04. STRENGTH FUNCTION IS 8.50003E-05  
STRENGTH FUNCTION 8.49985E-05  
LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04

10. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 102 / THE CALCULATED Q 7.93357E+06 DISSAGREES WITH THE GIVEN Q 6.89839E+06 (0): Iffy Q*

FILE 3  
SECTION 102  
THE CALCULATED Q 7.93357E+06 DISSAGREES WITH THE GIVEN Q 6.89839E+06

11. Non-threshold reaction with Q value differing from PSYCHE's expectations  
*FILE 3 / SECTION 107 / THE CALCULATED Q 5.44491E+06 DISSAGREES WITH THE GIVEN Q 4.41020E+06 (0): Iffy Q*

FILE 3  
SECTION 107  
THE CALCULATED Q 5.44491E+06 DISSAGREES WITH THE GIVEN Q 4.41020E+06



- groupie Errors:

1. Very small elastic cross section found  
*0: Small elastic*

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

-----  
ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel*

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.58%

3. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 1: (z,n) (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.10%

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.  
*reaction label 12: n[multiplicity:'2'] + Ba135 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9192686.23526001 eV vs -9112090. eV!

2. Calculated and tabulated Q values disagree.  
*reaction label 13: n[multiplicity:'3'] + Ba134 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -16164646.9385376 eV vs -1.60902e7 eV!

3. Calculated and tabulated Q values disagree.  
*reaction label 14: n + H1 + Cs135 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8678998.315063477 eV vs -8534640. eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 15: Ba137 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 6820663.770401001 eV vs 6898390. eV!

5. Calculated and tabulated Q values disagree.  
*reaction label 16: n + He4 + Xe132 (Error # 0): Q mismatch*



WARNING: Calculated and tabulated Q-values disagree: -2116316.367004395 eV vs -2.0419e6 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 17: H1 + Cs136\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1850823.032897949 eV vs -1765540. eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 18: H2 + Cs135\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -6454432.214126587 eV vs -6224520. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 19: H3 + Cs134\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8959188.799484253 eV vs -8871460. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 20: He4 + Xe133\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 4318119.175979614 eV vs 4.4102e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*



---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*grouppr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided